

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A washing machine comprising:

a tub having an open front side;

a drum rotatably provided in the tub to hold laundry;

a motor rotating the drum;

a cabinet having the tub and the motor inside;

a control unit configured to control a vibration of the tub; and

a vibration sensing assembly configured to sense the vibration of the tub, the vibration sensing assembly comprising:

a fixing part fixed to an inner wall of the cabinet;

a first rotational body having a first end connected to the fixing part and configured to rotate a first predetermined range with respect to the fixing part so as to restrict a front to rear vibration of the tub;

a second rotational body having a first end ~~connected to~~ being moveable by a vibration of the tub and a second end connected rotatably to a second end of the first rotational body, said second rotational body configured to rotate a second predetermined range with respect to the first rotational body so as to restrict an up and down vibration of the tub; and

a sensor configured to sense a rotational movement of at least one from the first and second rotational bodies.

2. (Previously Presented) The washing machine as claimed in claim 1, wherein the fixing part comprises:

a fixing body fixed to the inner wall of the cabinet, a first rotational connecting portion connected in one body to the fixing body and rotatably connected to the first end of the first rotational body, and a first stopper provided to interrupt the rotational movement of the first rotational body so that the first rotational body only rotates within the first predetermined range.

3. (Previously Presented) The washing machine as claimed in claim 2, wherein the first rotational connecting portion comprises an insertion hole in which a rotational center of the first rotational body is inserted.

4. (Previously Presented) The washing machine as claimed in claim 3, wherein the fixing part further comprises a first elastic member returning the first rotational body to an original position.

5. (Previously Presented) The washing machine as claimed in claim 4, wherein the first elastic member comprises a first coil spring having one end connected to the fixing body or the first stopper and the other end connected to the first rotational body.

6. (Original) The washing machine as claimed in claim 2, wherein the fixing body is fixed to the inner wall of the cabinet by at least one hook.

7. (Previously Presented) The washing machine as claimed in claim 2, wherein the first rotational body comprises:

a second rotational connecting portion rotatably connected to the first rotational connecting portion of the fixing part to be a rotational center; and

a rotational body having one end connected to the second rotational connecting portion to rotate according to the vibration of the tub centering around the second rotational connecting portion.

8. (Original) The washing machine as claimed in claim 7, wherein the rotational body comprises a vibration transferring portion provided to an opposite side of the second rotational connecting portion to transfer the vibration of the tub to the rotational body.

9. (Canceled).

10. (Previously Presented) The washing machine as claimed in claim 8, wherein the first rotational body further comprises:

a second stopper configured to interrupt the rotational movement of the second rotational body so that the second rotational body only rotates within the second predetermined range ; and

a third rotational connecting portion to which the second end of the second rotational body is rotatably connected.

11. (Original) The washing machine as claimed in claim 10, wherein the first rotational body further comprises a second elastic member returning the second rotational body to its original position.

12. (Original) The washing machine as claimed in claim 11, wherein the second elastic member comprises a second coil spring having one end connected to the second stopper and the other end connected to the second rotational body.

13. (Previously Presented) The washing machine as claimed in claim 12, wherein the second rotational body comprises:

a fourth rotational connecting portion connected to the third rotational connecting portion to become a rotational center; and

a sensor receiving portion configured to receive the sensor therein.

14. (Original) The washing machine as claimed in claim 13, wherein the sensor receiving portion is provided to an upper surface of the second rotational body.

15. (Previously Presented) The washing machine as claimed in claim 1, wherein the sensor comprises:

a ball type rolling body moving in a reverse direction of a movement of the second rotational body according to the vibration of the tub;

a case providing a space for holding the rolling body; and

a movement sensing unit configured to sense a movement of the rolling body.

16. (Original) The washing machine as claimed in claim 15, wherein a vertical cross-section of the inner space of the case is circular or oval.

17. (Previously Presented) The washing machine as claimed in claim 15, wherein the movement sensing unit comprises:

a signal transmitting part provided to one side of an inner wall of the case; and

a signal receiving part provided to the other side confronting the signal transmitting part to receive a signal transmitted from the signal transmitting part.

18. (Original) The washing machine as claimed in claim 1, wherein the vibration sensing assembly is coupled to the inner wall of a rear side of the cabinet in rear of the tub.

19. (Previously Presented) The washing machine as claimed in claim 18, wherein the tub comprises:

a protruding plate provided in a vicinity of a lateral side of the rotational part, the protruding plate protruding in a rear direction to transfer a right-to-left vibration of the tub to the rotational part.